

In re Patent Application of:
FLICK
Serial No. 10/648,931
Filing Date: AUGUST 27, 2003

In the Claims:

This listing of claims replaces all prior versions and listing of claims in the application.

1. (Currently amended) A pre-warn vehicle security device for a vehicle comprising a data communications bus extending throughout the vehicle, an alert indicator, and an alarm controller interfacing with the data communications bus extending throughout the vehicle and when in an armed mode causing the alert indicator to generate an alarm indication responsive to a high security threat level, the pre-warn vehicle security device comprising:

a pre-warn vehicle security sensor for sensing a security threat level lower than the high security threat level; and

a pre-warn emulator for generating at least one signal on the vehicle data communications bus extending throughout the vehicle responsive to said pre-warn vehicle security sensor so that the alarm controller causes the alert indicator to generate an emulated pre-warn indication different from the alarm indication.

2. (Currently amended) The pre-warn vehicle security device of Claim 1 wherein said pre-warn emulator, responsive to said pre-warn vehicle security sensor, sequentially generates a high security threat level signal and a disarmed mode signal on the data communications bus extending throughout the vehicle.

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3. (Original) The pre-warn vehicle security device of Claim 2 wherein said pre-warn emulator sequentially generates the high security threat level signal and the disarmed mode signal less than about five seconds apart.

4. (Currently amended) The pre-warn vehicle security device of Claim 1 wherein said pre-warn emulator, responsive to said pre-warn vehicle security sensor, generates a plurality of armed mode signals on the data communications bus extending throughout the vehicle.

5. (Original) The pre-warn vehicle security device of Claim 1 wherein the pre-warn indication has a shorter duration than the alarm indication.

6. (Original) The pre-warn vehicle security device of Claim 1 wherein the pre-warn indication is audible and has a lesser volume than the alarm indication.

7. (Original) The pre-warn vehicle security device of Claim 1 wherein said pre-warn vehicle security sensor also senses the high security threat level for causing the alarm indicator to generate the alarm indication.

8. (Original) The pre-warn vehicle security device of Claim 1 further comprising a housing carrying said pre-warn vehicle security sensor and said pre-warn emulator.

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9. (Currently amended) The pre-warn vehicle security device of Claim 1 further comprising a signal enabler for enabling said pre-warn emulator to operate using a desired set of signals for communicating with the alarm controller via the data communications bus extending throughout the vehicle from a plurality of sets of signals for different alarm controllers.

10. (Original) The pre-warn vehicle security device of Claim 1 wherein said pre-warn vehicle security sensor comprises at least one of a motion sensor and a shock sensor.

11. (Original) A pre-warn vehicle security device for a vehicle comprising a data communications bus, an alert indicator, and an alarm controller interfacing with the data communications bus and when in an armed mode causing the alert indicator to generate an alarm indication responsive to a high security threat level, the pre-warn vehicle security device comprising:

a pre-warn vehicle security sensor for sensing the high security threat level, and for sensing a low security threat level lower than the high security threat level; and

a pre-warn emulator for generating a high security threat level signal on the data communications bus responsive to the sensed high security threat level, and for sequentially generating the high security threat level signal and a disarmed mode signal on the data communications bus responsive

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to the sensed low security threat level so that the alarm controller causes the alert indicator to generate an emulated pre-warn indication different from the alarm indication.

12. (Original) The pre-warn vehicle security device of Claim 11 wherein said pre-warn emulator sequentially generates the high security threat level signal and the disarmed mode signal less than about five seconds apart.

13. (Original) The pre-warn vehicle security device of Claim 11 wherein the pre-warn indication has a shorter duration than the alarm indication.

14. (Original) The pre-warn vehicle security device of Claim 11 further comprising a housing carrying said pre-warn vehicle security sensor and said pre-warn emulator.

15. (Original) The pre-warn vehicle security device of Claim 11 further comprising a signal enabler for enabling said pre-warn emulator to operate using a desired set of signals for communicating with the alarm controller via the data communications bus from a plurality of sets of signals for different alarm controllers.

16. (Original) The pre-warn vehicle security device of Claim 11 wherein said pre-warn vehicle security sensor comprises at least one of a motion sensor and a shock sensor.

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17. (Currently amended) A pre-warn vehicle security device for a vehicle comprising a data communications bus extending throughout the vehicle, an alert indicator, and an alarm controller interfacing with the data communications bus extending throughout the vehicle and when in an armed mode causing the alert indicator to generate an alarm indication responsive to a high security threat level, the pre-warn vehicle security device comprising:

a pre-warn vehicle security sensor for sensing the high security threat level, and for sensing a threat level lower than the high security threat level; and

a pre-warn emulator for generating a high security threat level signal on the data communications bus extending throughout the vehicle responsive to the sensed high security threat level, and for generating at least one armed mode signal on the data communications bus extending throughout the vehicle responsive to the sensed low security threat level so that the alarm controller causes the alert indicator to generate at least one armed mode indication as an emulated pre-warn indication.

18. (Original) The pre-warn vehicle security device of Claim 17 wherein the pre-warn indication has a shorter duration than the alarm indication.

19. (Original) The pre-warn vehicle security device of Claim 17 wherein the pre-warn indication is audible and has a lesser volume than the alarm indication.

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20. (Original) The pre-warn vehicle security device of Claim 17 further comprising a housing carrying said pre-warn vehicle security sensor and said pre-warn emulator.

21. (Currently amended) The pre-warn vehicle security device of Claim 17 further comprising a signal enabler for enabling said pre-warn emulator to operate using a desired set of signals for communicating with the alarm controller via the data communications bus extending throughout the vehicle from a plurality of sets of signals for different alarm controllers.

22. (Original) The pre-warn vehicle security device of Claim 17 wherein said pre-warn vehicle security sensor comprises at least one of a motion sensor and a shock sensor.

23. (Currently amended) A method for upgrading a vehicle security system in a vehicle comprising a data communications bus extending throughout the vehicle, the vehicle security system comprising an alert indicator and an alarm controller interfacing with the data communications bus extending throughout the vehicle and when in an armed mode causing the alert indicator to generate an alarm indication responsive to a high security threat level, the method comprising:

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installing a pre-warn vehicle security sensor in the vehicle for sensing a threat level lower than the high security threat level; and

interfacing a pre-warn emulator with the vehicle data communications bus extending throughout the vehicle which, responsive to the pre-warn vehicle security sensor, generates at least one signal on the data communications bus extending throughout the vehicle so that the alarm controller causes the alert indicator to generate an emulated pre-warn indication different from the alarm indication.

24. (Currently amended) The method of Claim 23 wherein the pre-warn emulator, responsive to the pre-warn vehicle security sensor, sequentially generates a high security threat level signal and a disarmed mode signal on the data communications bus extending throughout the vehicle.

25. (Original) The method of Claim 24 wherein the pre-warn emulator sequentially generates the high security threat level signal and the disarmed mode signal less than about five seconds apart.

26. (Currently amended) The method of Claim 23 wherein the pre-warn emulator, responsive to the pre-warn vehicle security sensor, generates a plurality of armed mode signals on the data communications bus extending throughout the vehicle.

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27. (Original) The method of Claim 23 wherein the pre-warn indication has a shorter duration than the alarm indication.

28. (Original) The method of Claim 23 wherein the pre-warn indication is audible and has a lesser volume than the alarm indication.

29. (Original) The method of Claim 23 wherein the pre-warn vehicle security sensor also senses the high security threat level for causing the alarm indicator to generate the alarm indication.

30. (Original) The method of Claim 23 wherein the pre-warn vehicle security sensor further comprises a housing carrying the pre-warn vehicle security sensor and the pre-warn emulator.

31. (Currently amended) The method of Claim 23 wherein the pre-warn vehicle security sensor further comprises a signal enabler for enabling the pre-warn emulator to operate using a desired set of signals for communicating with the alarm controller via the data communications bus extending throughout the vehicle from a plurality of sets of signals for different alarm controllers.

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32. (Original) The method of Claim 23 wherein the pre-warn vehicle security sensor comprises at least one of a motion sensor and a shock sensor.